



BUILDING CODE COMPLIANCE OFFICE (BCCO)  
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA  
METRO-DADE FLAGLER BUILDING  
140 WEST FLAGLER STREET, SUITE 1603  
MIAMI, FLORIDA 33130-1563  
(305) 375-2901 FAX (305) 375-2908

## NOTICE OF ACCEPTANCE (NOA)

**PGT Industries**  
1070 Technology Drive  
Nokomis, FL 34275

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

### DESCRIPTION: Series "740" Aluminum Projected Window

**APPROVAL DOCUMENT:** Drawing No. 7052-7, titled "Alum. Projected Window, impact", sheets 1 through 11 of 11, prepared by manufacturer, dated 2/24/03, with revision date 8/26/03, signed and sealed by Lucas Turner, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

### MISSILE IMPACT RATING: Large and Small Missile Impact

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

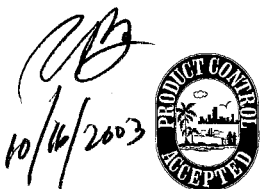
**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of this page 1 as well as approval document mentioned above.

The submitted documentation was reviewed by **Theodore Berman, P.E.**



NOA No 03-0514.10  
Expiration Date: November 06, 2008  
Approval Date: November 06, 2003

**PGT Industries**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **7052-7**, titled "Alum. Projected Window, impact", sheets 1 through 11 of 11, prepared by manufacturer, dated 2/24/03, with revision date 8/26/03, signed and sealed by Lucas Turner, P.E.

**B. TESTS**

1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94  
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of an aluminum projected window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-3728** dated 2/28/03, signed and sealed by Joseph Chan, P.E.
2. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94  
along with marked-up drawings and installation diagram of an aluminum projected window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-3724** dated 2/28/03, signed and sealed by Joseph Chan, P.E.

**C. CALCULATIONS**

1. Anchor Calculations, ASTM-E1300-98, and structural analysis, prepared by Lucas Turner, P.E., dated 2/14/02, signed and sealed by Lucas Turner, P.E.

**D. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **00-1212.04** issued to E.I. DuPont for "Dupont Butacite ® PVB" dated 2/15/01, expiring on 12/11/05.

**E. QUALITY ASSURANCE**

1. Miami Dade County Building Code Compliance Office.

  
Theodore Berman, P.E.

Deputy Director, Product Control Division

NOA No 03-0514.10

Expiration Date: November 06, 2008

Approval Date: November 06, 2003

**PGT Industries**

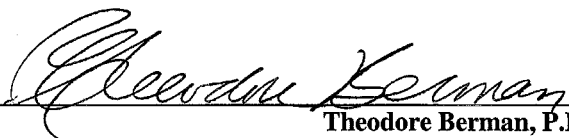
**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**F. STATEMENTS**

1. Statement letter of conformance, dated 5/12/03, signed and sealed by Lucas Turner, P.E.
2. Statement letter of no financial interest, dated 5/12/03, signed and sealed by Lucas Turner, P.E.
3. Laboratory compliance letters for Test Report no. FTL-3728 and FTL-3724, issued by Fenestration Testing Laboratory, Inc., dated 3/19/03, signed and sealed by Joseph Chan, P.E.

**G. OTHER**

1. Letter from the consultant stating that the product is in compliance with the Florida Building Code (FBC).

  
Theodore Berman, P.E.

Deputy Director, Product Control Division

NOA No 03-0514.10

Expiration Date: November 06, 2008

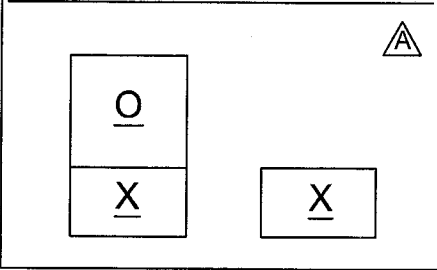
Approval Date: November 06, 2003

NOTES: LARGE MISSILE WINDOWS

1. GLAZING OPTIONS:

- A. 5/16" LAMINATED GLASS COMPRISED OF (1) LITE OF 1/8" ANNEALED GLASS AND (1) LITE OF 1/8" HEAT STRENGTHENED GLASS W/ AN .090 INNER LAYER OF SOLUTIA OR DUPONT PVB.
- B. 5/16" LAMINATED GLASS COMPRISED OF (2) LITES OF 1/8" HEAT STRENGTHENED GLASS W/ AN .090 INNER LAYER OF SOLUTIA OR DUPONT PVB.
- C. 7/16" LAMINATED GLASS COMPRISED OF (1) LITE OF 3/16" ANNEALED GLASS AND (1) LITE OF 3/16" HEAT STRENGTHENED GLASS W/ AN .090 INNER LAYER OF SOLUTIA OR DUPONT PVB.
- D. 7/16" LAMINATED GLASS COMPRISED OF (2) LITES OF 3/16" HEAT STRENGTHENED GLASS W/ AN .090 INNER LAYER OF SOLUTIA OR DUPONT PVB.
- E. 13/16" I.G. GLASS COMPRISED OF (1) LITE OF 1/8" HEAT STRENGTHENED GLASS AND (1) 5/16" LAMINATED GLASS COMPONENT WITH A 3/8" AIR SPACE. 5/16" LAMINATED COMPONENT COMPRISED OF (2) LITES OF 1/8" HEAT STRENGTHENED GLASS WITH AN .090 SOLUTIA OR DUPONT INNER LAYER.

CONFIGURATIONS OPTIONS



A

NOA DRAWING TABLE OF CONTENTS

	SHEET
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A 2. CONFIGURATIONS: OX & X

3. DESIGN PRESSURE RATINGS / COMPARATIVE ANALYSIS TABLES:

- A. NEGATIVE DESIGN LOADS BASED ON TESTED PRESSURE AND GLASS TABLES ASTM E 1300-98 (AND ASTM E 1300-94 OUTSIDE MIAMI-DADE COUNTY).
- B. POSITIVE DESIGN LOADS BASED ON WATER TEST PRESSURE AND GLASS TABLES ASTM E 1300-98 (AND ASTM E 1300-94 OUTSIDE MIAMI-DADE COUNTY).
- C. DESIGN PRESSURES UNDER 40 P.S.F. NOT APPLICABLE IN MIAMI-DADE COUNTY.

A 4. ANCHORAGE: SINGLE ROW OF FASTENERS LOCATED AS FOLLOWS:

- JAMBS "X": MAX. 8" FROM CORNERS
- JAMBS "OX": MAX. 4" FROM "O" CORNERS  
MAX. 13" O.C.  
(2) ANCHORS 3" APART AT MID-SPAN ON FIXED LITE ONLY  
MAX. 4" & 7" ON EACH SIDE OF MEETING RAIL  
MAX. 8" FROM "X" CORNERS
- HEAD & SILL: MAX. 4" FROM CORNERS  
MAX. 13" SPACING  
(2) ANCHORS 3" APART AT MID-SPAN

ALTERNATE FASTENERS: 1/4" TAPCONS OR #14 SCREWS MAY BE USED AT THE ABOVE SPACING. SEE SHEETS 4, 5, 6 AND 7 FOR ALLOWABLE DESIGN PRESSURES IF USING 3/16" TAPCONS OR #12 SCREWS.

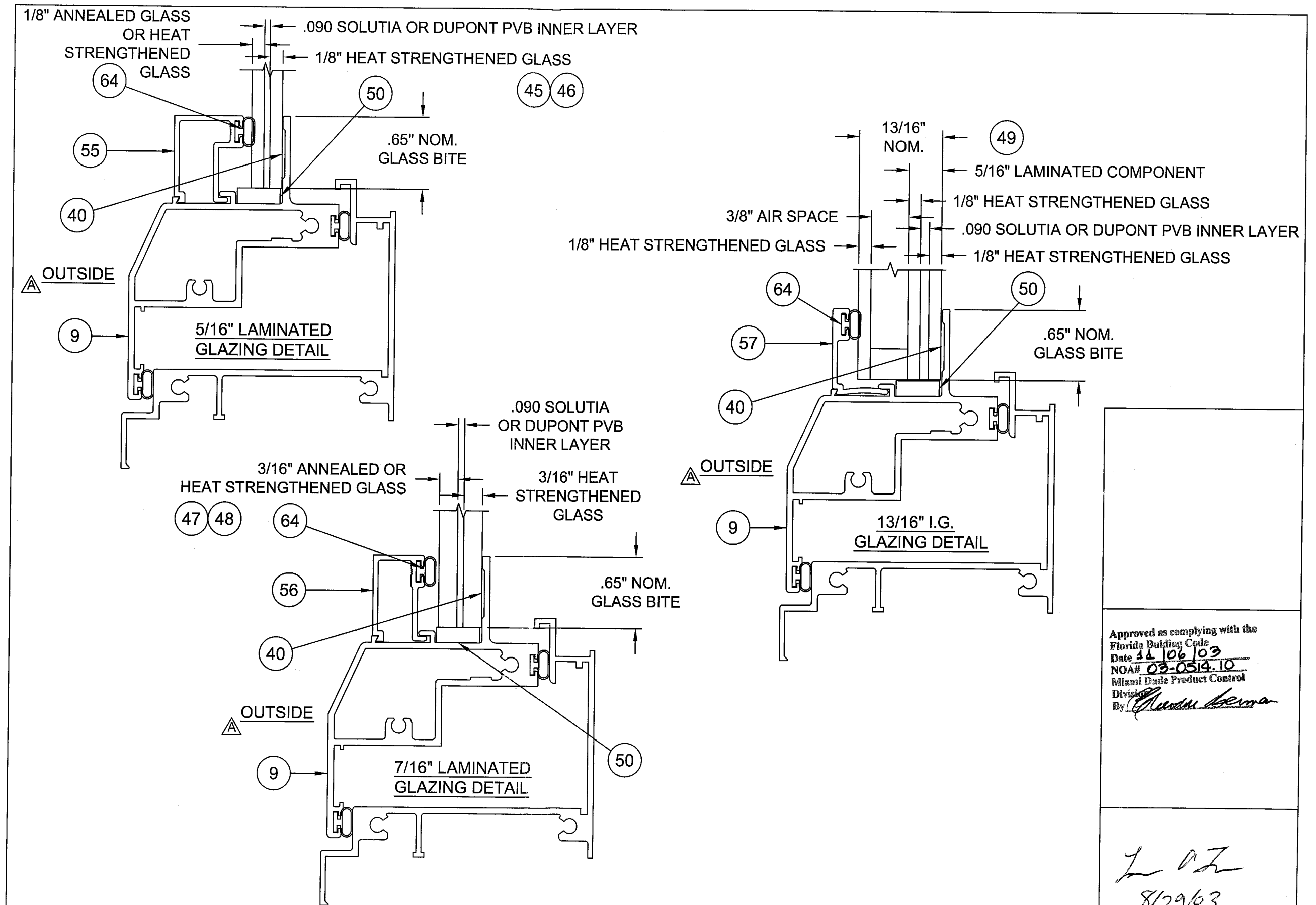
- 5. SHUTTER REQUIREMENT: NONE REQUIRED
- 6. NARROW JOINT SEALANT IS USED ON ALL FOUR CORNERS OF THE FRAME.
- 7. REFERENCE TEST REPORTS: FTL-3724, FTL-3727 & FTL-3728.

Approved as complying with the  
Florida Building Code  
Date 11/06/03  
NOA# 03-0514.10  
Miami Dade Product Control  
Division  
By Lucas A. Turner

Lucas A. Turner  
8/29/03

Revsd By: F.K.	Date: 8/26/03	Revisions: A	REMOVE "O" OPTION PER MIAMI-DADE	1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275  P.O. BOX 1529 NOKOMIS, FL 34274	<b>PGT</b> Visibly Better	Description: NOTES AND TABLE OF CONTENTS					
Revsd By:	Date:	Revisions:				Title: ALUM. PROJECTED WINDOW, IMPACT					
Revsd By:	Date:	Revisions:				Series/Model: CA-740	Scale: NTS	Sheet: 1 of 11	Drawing No. 7052-7	Rev: A	
Drawn By: F.K.	Date: 02/24/03	Checked By:	Date:								

Lucas A. Turner, P.E.  
PE #58201  
Mechanical



Approved as complying with the  
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Date 11/06/03  
NOA# 03-0514.10  
Miami Dade Product Control  
Division  
By: *Lucas A. Turner*

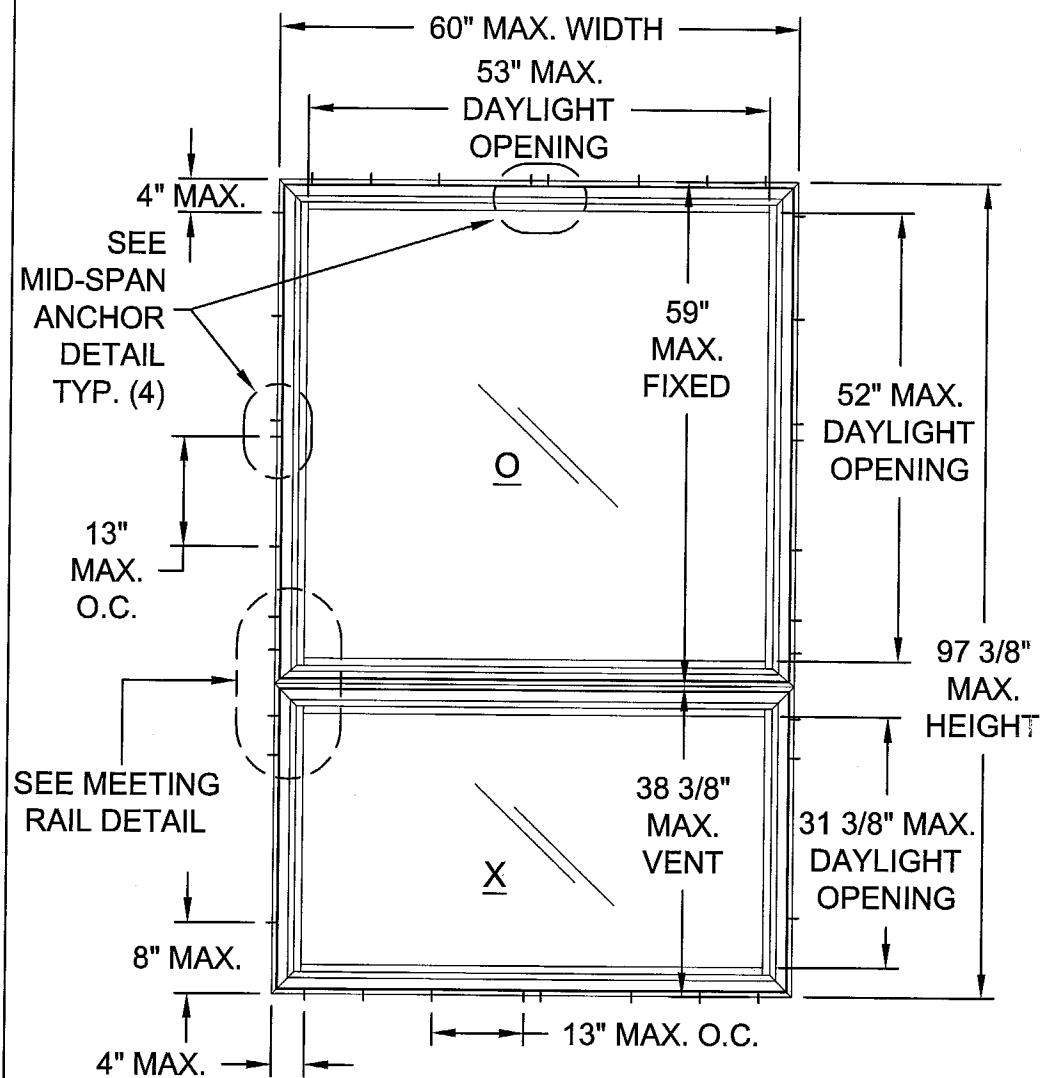
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8/29/03

Revsd By: F.K.	Date: 8/26/03	Revisions: A	ADD "OUTSIDE" NOTATION		1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275  P.O. BOX 1529 NOKOMIS, FL 34274	 Visibly Better	Description: GLAZING DETAILS					Rev: A
Revsd By:	Date:	Revisions:					Title: ALUM. PROJECTED WINDOW, IMPACT					
Revsd By:	Date:	Revisions:					Series/Model: CA-740	Scale: NTS	Sheet: 2 of 11	Drawing No. 7052-7		
Drawn By: F.K.	Date: 02/24/03	Checked By:	Date:									

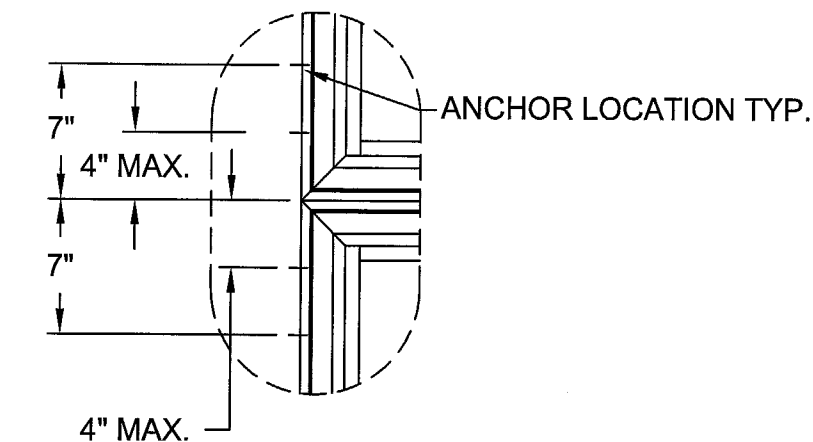
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Lucas A. Turner, P.E.  
PE #58201  
Mechanical

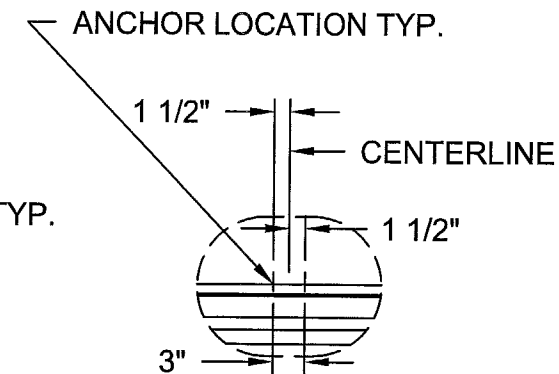
Lucas A. Turner, P.E.  
PE #58201  
Mechanical



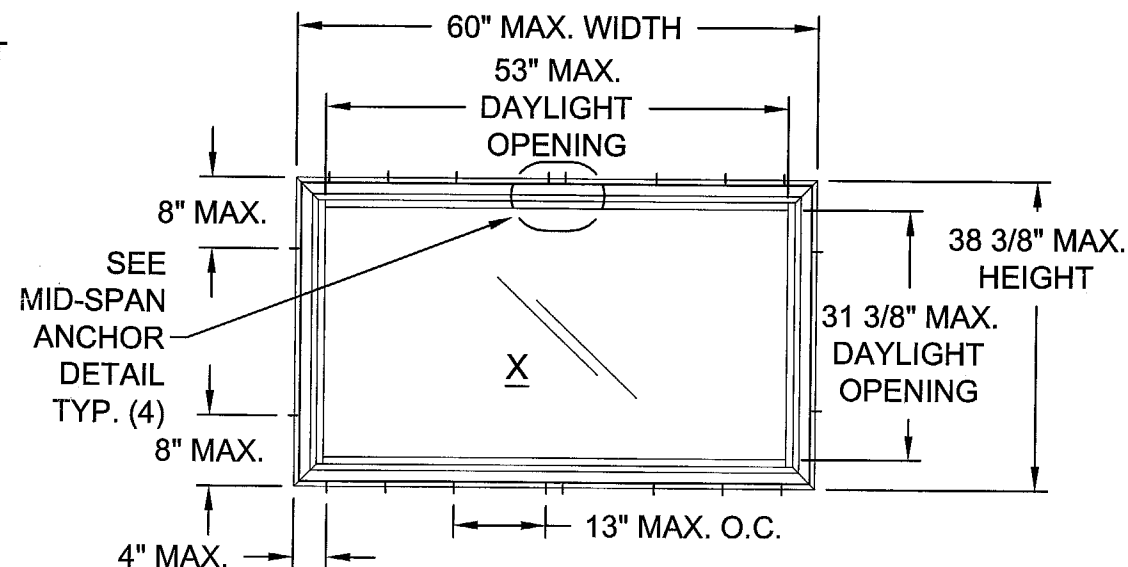
ELEVATION "A" - "OX"  
(SEE SHEETS 5 & 6 FOR PRESSURES)



MEETING RAIL DETAIL (SEE SHT.1 NOTE 4)




MID-SPAN ANCHOR DETAIL  
(SEE SHT. 1 NOTE 4)



ELEVATION "B" - "X"  
(SEE SHEET 4 FOR PRESSURES)

Approved as complying with the  
Florida Building Code  
Date 11/06/03  
NOA# 03-0514.10  
Miami Dade Product Control  
Division  
By Blenda Berman

*L A T*  
8/29/03

Revsd By: F.K.	Date: 8/26/03	Revisions: A	REMOVE "O" ELEVATION		1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275  P.O. BOX 1529 NOKOMIS, FL 34274	 Visibly Better	Description: ELEVATIONS					Rev: A
Revsd By:	Date:	Revisions:					Title: ALUM. PROJECTED WINDOW, IMPACT					
Revsd By:	Date:	Revisions:					Series/Model: CA-740					
Revsd By:	Date:	Revisions:					Scale: NTS					
Drawn By: F.K.	Date: 02/24/03	Checked By:	Date:		Sheet: 3 of 11					Drawing No. 7052-7		

Lucas A. Turner, P.E.  
PE #58201  
Mechanical

COMPARATIVE ANALYSIS TABLE 1. (FOR 1/4" TAPCONS OR #14 SCREWS) "X" WINDOWS TEST REPORTS: FTL-3724,FTL-3727,FTL-3728

GLAZING OPTION: A. 5/16" LAMI (1/8"A,.090,1/8"HS) FTL-3727

VENT HEIGHT			17.000		18.000		21.000		24.000		26.000		30.000		33.000		36.000		37.000		38.375	
WINDOW WIDTH	24.000	A	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0
	26.500	A	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0
	30.000	A	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0
	36.000	A	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-73.7	70.0	-70.4
	37.000	A	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-73.7	70.0	-71.2	67.9	-67.9
	43.000	A	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	68.2	-68.2	60.4	-60.4	59.0	-59.0	57.2	-57.2
	48.000	A	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	68.4	-68.4	59.4	-59.4	54.3	-54.3	52.8	-52.8	51.1	-51.1
	53.125	A	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	60.6	-60.6	54.8	-54.8	48.8	-48.8	47.2	-47.2	45.5	-45.5
	57.000	A	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	58.5	-58.5	51.0	-51.0	44.8	-44.8	43.5	-43.5	42.1	-42.1
	60.000	A	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-72.9	56.2	-56.2	47.5	-47.5	42.2	-42.2	41.1	-41.1	39.7	-39.7

GLASS OPTION B. 5/16" LAMI (1/8"HS,.090,1/8"HS) FTL-3727 ALL THE ABOVE SIZE COMBINATIONS 70.0 -75.0


GLASS OPTION C. 7/16" LAMI (3/16"A,.090,3/16"HS) FTL-3724 ALL THE ABOVE SIZE COMBINATIONS 70.0 -90.0

GLASS OPTION E. 13/16" I.G. (1/8"HS, 3/8" SPACE, 5/16" LAMI W/ 1/8"HS & 1/8" HS) FTL-3728 ALL THE ABOVE SIZE COMBINATIONS 70.0 -75.0

NOTE: IF USING 3/16" TAPCONS OR #12 SCREWS DESIGN PRESSURE FOR "X" WINDOWS IS LIMITED TO 60.5 P.S.F.

Approved as complying with the  
Florida Building Code  
Date 11/06/03  
NOA# 03-0514.10  
Miami Dade Product Control  
Division  
By Alexander Herman

L A T  
8/29/03

Revsd By:	Date:	Revisions:	1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275  P.O. BOX 1529 NOKOMIS, FL 34274		 Visibly Better		Description: DESIGN PRESSURES "X" WINDOWS Title: ALUM. PROJECTED WINDOW, IMPACT		Series/Model: CA-740		Scale: NTS		Sheet: 4 of 11		Drawing No. 7052-7		Rev: A															
F.K.	8/26/03	A																														
Revsd By:	Date:	Revisions:																														
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Drawn By:	Date:	Checked By:	Date:																													
F.K.	02/24/03																															

Lucas A. Turner, P.E.  
PE #58201  
Mechanical


COMPARATIVE ANALYSIS TABLE 3. (FOR 1/4" TAPCONS OR #14 SCREWS) "OX" UNEQUAL LITE WINDOWS EST REPORTS: FTL-3724,FTL-3727,FTL-3728

GLAZING OPTIONS: A. 5/16" LAMI (1/8"A,.090,1/8"HS) FTL-3727 B. 5/16" LAMI (1/8"HS,.090,1/8"HS) FTL-3727  
C. 7/16" LAMI (3/16"A,.090,3/16"HS) FTL-3724 E. 13/16" I.G. (1/8"HS, 3/8" SPACE, 5/16" LAMI W/ 1/8"HS, 1/8"HS) FTL-3728

VENT HEIGHT			UP TO 26.000												30.000											
FIXED HEIGHT			26.000		32.000		38.375		44.000		50.625		59.000		26.000		32.000		38.375		44.000		50.625		59.000	
WINDOW WIDTH	24.000	A	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0
		B,E	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0
		C	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0
	26.500	A	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-70.8	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-70.8
		B,E	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0
		C	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0
	30.000	A	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	63.9	-63.9	57.0	-57.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	63.9	-63.9	57.0	-57.0
		B,E	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0
		C	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0
	36.000	A	70.0	-75.0	70.0	-75.0	70.0	-70.4	59.2	-59.2	51.1	-51.1	43.0	-43.0	70.0	-75.0	70.0	-75.0	70.0	-70.4	59.2	-59.2	51.1	-51.1	43.0	-43.0
		B,E	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0
		C	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0
	37.000	A	70.0	-75.0	70.0	-75.0	67.9	-67.9	57.8	-57.8	49.9	-49.9	41.9	-41.9	70.0	-75.0	70.0	-75.0	67.9	-67.9	57.8	-57.8	49.9	-49.9	41.9	-41.9
		B,E	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0
		C	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0
	43.000	A	70.0	-75.0	70.0	-71.1	57.2	-57.2	60.7	-60.7	52.6	-52.6	44.4	-44.4	70.0	-75.0	70.0	-71.1	57.2	-57.2	60.7	-60.7	52.6	-52.6	44.4	-44.4
		B,E	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0
		C	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-78.6	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-78.6
	48.000	A	70.0	-75.0	61.8	-61.8	51.1	-51.1	54.4	-54.4	48.6	-48.6	41.0	-41.0	68.4	-68.4	61.8	-61.8	51.1	-51.1	54.4	-54.4	48.6	-48.6	41.0	-41.0
		B,E	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0
		C	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-80.9	68.4	-68.4	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-80.9	68.4	-68.4
	53.125	A	70.0	-75.0	56.8	-56.8	45.5	-45.5	49.1	-49.1	44.3	-44.3	38.7	-38.7	60.6	-60.6	56.8	-56.8	45.5	-45.5	49.1	-49.1	44.3	-44.3	38.7	-38.7
		B,E	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0
		C	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-85.9	70.0	-71.2	60.9	-60.9	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-85.9	70.0	-71.2	60.9	-60.9
57.000	A	70.0	-75.0	53.8	-53.8	42.1	-42.1	45.5	-45.5	41.2	-41.2	37.3	-37.3	58.5	-58.5	53.8	-53.8	42.1	-42.1	45.5	-45.5	41.2	-41.2	37.3	-37.3	
	B,E	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-74.5	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-74.5	
	C	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-79.3	66.7	-66.7	56.9	-56.9	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-79.3	66.7	-66.7	56.9	-56.9	
60.000	A	70.0	-72.9	50.4	-50.4	39.7	-39.7	42.8	-42.8	39.2	-39.2	35.9	-35.9	56.2	-56.2	50.4	-50.4	39.7	-39.7	42.8	-42.8	39.2	-39.2	35.9	-35.9	
	B,E	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-71.8	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-71.8	
	C	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-74.6	63.3	-63.3	54.0	-54.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-74.6	63.3	-63.3	54.0	-54.0	

GLASS OPTION D. 7/16" LAMI (3/16"HS,.090,3/16"HS) FTL-3724 ALL THE ABOVE SIZE COMBINATIONS 70.0 -90.0

NOTE: IF USING 3/16" TAPCONS OR #12 SCREWS DESIGN PRESSURE FOR "OX" WINDOWS IS LIMITED TO 41.4 P.S.F.

Revsd By: F.K.	Date: 8/26/03	Revisions: A	NO CHANGE THIS SHEET	1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275  P.O. BOX 1529 NOKOMIS, FL 34274		Description: DESIGN PRESSURES "OX" WINDOWS							
Revsd By:	Date:	Revisions:				Title: ALUM. PROJECTED WINDOW, IMPACT							
Revsd By:	Date:	Revisions:				Series/Model: CA-740							
Drawn By: F.K.	Date: 02/24/03	Checked By:	Date:			Scale: NTS	Sheet: 5 of 11	Drawing No. 7052-7	Rev: A				

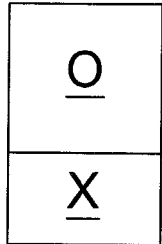
Approved as complying with the  
Florida Building Code  
Date: 11/06/03  
NOA# 03-0514.10  
Miami Date Product Control  
Division  
By: *Charles R. Bure*

*L O Z*  
*8/20/03*

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Mechanical



COMPARATIVE ANALYSIS TABLE 4. (FOR 1/4" TAPCONS OR #14 SCREWS)														"OX" UNEQUAL LITE WINDOWS										EST REPORTS: FTL-3724,FTL-3727,FTL-3728															
GLAZING OPTIONS:			A. 5/16" LAMI (1/8"A,.090,1/8"HS) FTL-3727											B. 5/16" LAMI (1/8"HS,.090,1/8"HS) FTL-3727																									
			C. 7/16" LAMI (3/16"A,.090,3/16"HS) FTL-3724											E. 13/16" I.G. (1/8"HS, 3/8" SPACE, 5/16" LAMI W/ 1/8"HS, 1/8"HS) FTL-3728																									
VENT HEIGHT			34.000												38.375																								
FIXED HEIGHT			26.000		32.000		38.375		44.000		50.625		59.000		26.000		32.000		38.375		44.000		50.625		59.000														
WINDOW WIDTH	24.000	A	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0													
		B,E	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0													
		C	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0													
	26.500	A	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-70.8	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-70.8													
		B,E	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0													
		C	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0													
	30.000	A	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	63.9	-63.9	57.0	-57.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	63.9	-63.9	57.0	-57.0													
		B,E	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0													
		C	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0													
	36.000	A	70.0	-75.0	70.0	-75.0	70.0	-70.4	59.2	-59.2	51.1	-51.1	43.0	-43.0	70.0	-70.4	70.0	-70.4	70.0	-70.4	59.2	-59.2	51.1	-51.1	43.0	-43.0													
		B,E	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0													
		C	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0													
	37.000	A	70.0	-75.0	70.0	-75.0	67.9	-67.9	57.8	-57.8	49.9	-49.9	41.9	-41.9	67.9	-67.9	67.9	-67.9	67.9	-67.9	57.8	-57.8	49.9	-49.9	41.9	-41.9													
		B,E	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0													
		C	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0													
	43.000	A	65.5	-65.5	65.5	-65.5	57.2	-57.2	60.7	-60.7	52.6	-52.6	44.4	-44.4	57.2	-57.2	57.2	-57.2	57.2	-57.2	57.2	-57.2	52.6	-52.6	44.4	-44.4													
		B,E	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0													
		C	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-78.6	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-78.6													
	48.000	A	57.5	-57.5	57.5	-57.5	51.1	-51.1	54.4	-54.4	48.6	-48.6	41.0	-41.0	51.1	-51.1	51.1	-51.1	51.1	-51.1	51.1	-51.1	48.6	-48.6	41.0	-41.0													
		B,E	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0													
		C	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-80.9	68.4	-68.4	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-80.9	68.4	-68.4													
	53.125	A	52.7	-52.7	52.7	-52.7	45.5	-45.5	49.1	-49.1	44.3	-44.3	38.7	-38.7	45.5	-45.5	45.5	-45.5	45.5	-45.5	45.5	-45.5	44.3	-44.3	38.7	-38.7													
		B,E	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0													
		C	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-85.9	70.0	-71.2	60.9	-60.9	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-85.9	70.0	-71.2	60.9	-60.9													
	57.000	A	48.6	-48.6	48.6	-48.6	42.1	-42.1	45.5	-45.5	41.2	-41.2	37.3	-37.3	42.1	-42.1	42.1	-42.1	42.1	-42.1	42.1	-42.1	41.2	-41.2	37.3	-37.3													
		B,E	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-74.5	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-74.5													
		C	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-79.3	66.7	-66.7	56.9	-56.9	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-79.3	66.7	-66.7	56.9	-56.9													
	60.000	A	45.2	-45.2	45.2	-45.2	39.7	-39.7	42.8	-42.8	39.2	-39.2	35.9	-35.9	39.7	-39.7	39.7	-39.7	39.7	-39.7	39.7	-39.7	39.2	-39.2	35.9	-35.9													
		B,E	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-71.8	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-75.0	70.0	-71.8													
		C	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-74.6	63.3	-63.3	54.0	-54.0	70.0	-90.0	70.0	-90.0	70.0	-90.0	70.0	-74.6	63.3	-63.3	54.0	-54.0													
GLASS OPTION D. 7/16" LAMI (3/16"HS,.090,3/16"HS) FTL-3724																												ALL THE ABOVE SIZE COMBINATIONS										70.0	-90.0



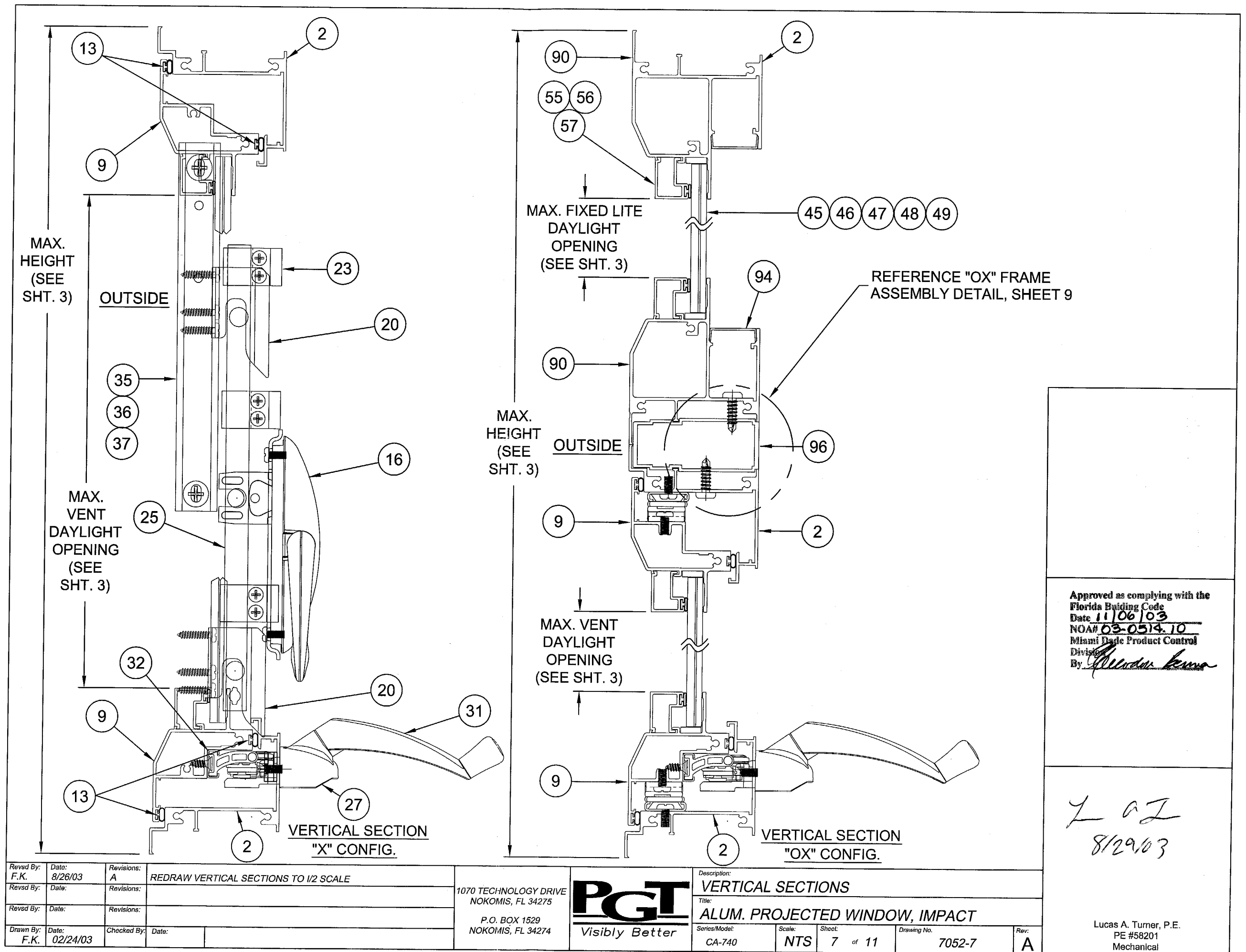
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Date 11/06/03  
NOA# 03-0514.10  
Miami Dade Product Control  
Division  
By Lucas A. Turner

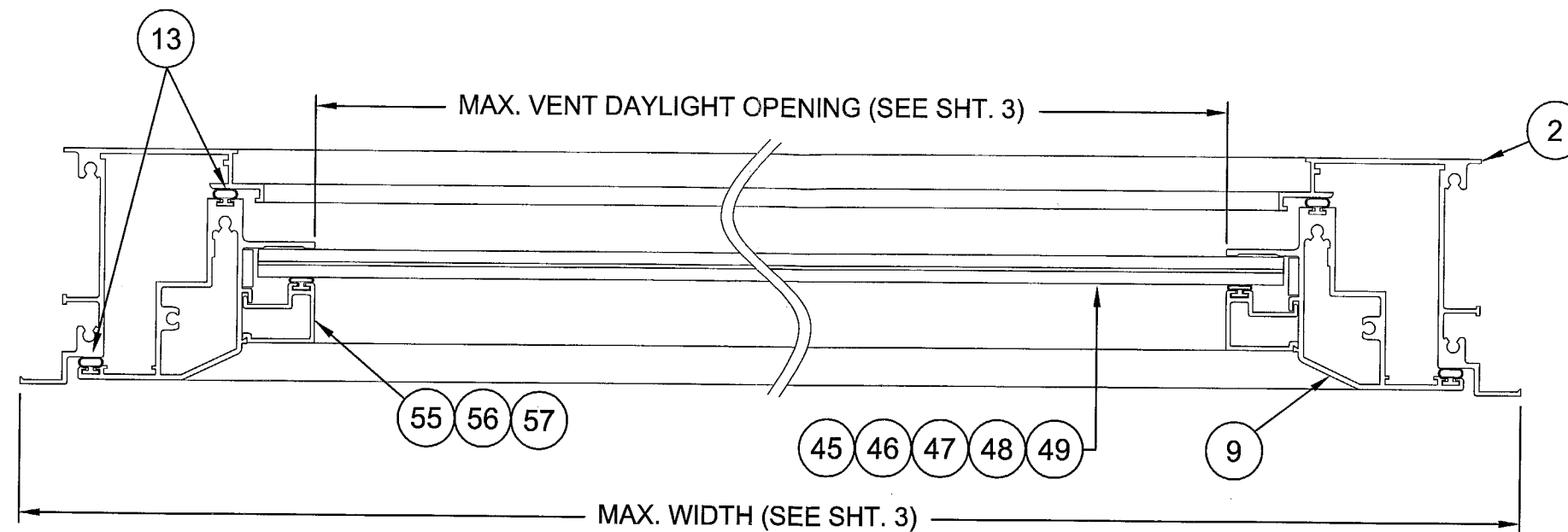
NOTE: IF USING 3/16" TAPCONS OR #12 SCREWS DESIGN PRESSURE FOR "OX" WINDOWS IS LIMITED TO 41.4 P.S.F.

L O Z  
8/29/03

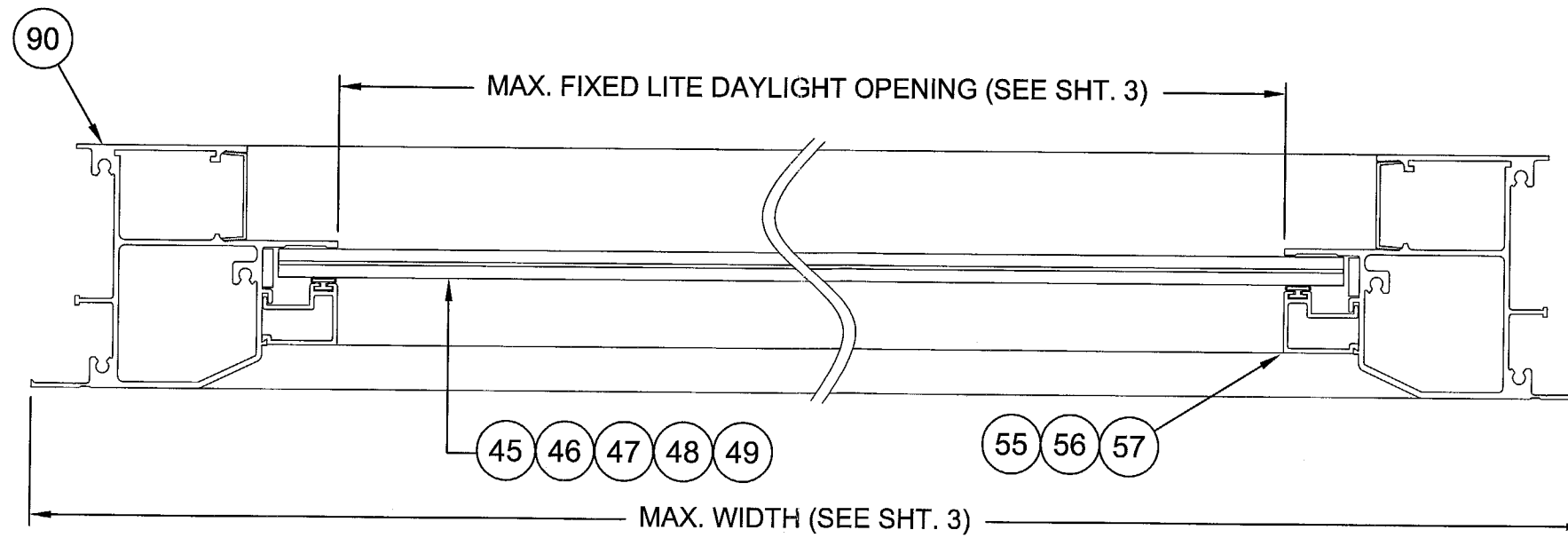
Revsd By: F.K.	Date: 8/26/03	Revisions: A	NO CHANGE THIS SHEET	1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275  P.O. BOX 1529 NOKOMIS, FL 34274	 Visibly Better	Description: DESIGN PRESSURES "OX" WINDOWS					
Revsd By:	Date:	Revisions:				Title: ALUM. PROJECTED WINDOW, IMPACT					
Revsd By:	Date:	Revisions:				Series/Model: CA-740		Scale: NTS	Sheet: 6 of 11	Drawing No. 7052-7	Rev: A
Drawn By: F.K.	Date: 02/24/03	Checked By:	Date:								

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Mechanical






HORIZONTAL SECTION  
THROUGH VENT



HORIZONTAL SECTION  
THROUGH FIXED LITE

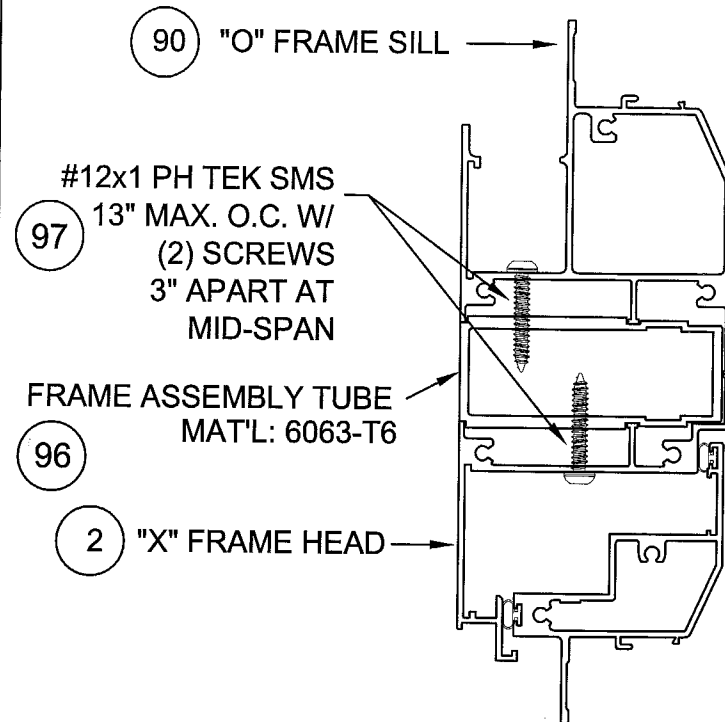
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Florida Building Code  
Date 11/06/03  
NOA# 03-0514.10  
Miami Dade Product Control  
Division  
By: *Cherish Bernu*

*Lucas A. Turner*  
8/25/03

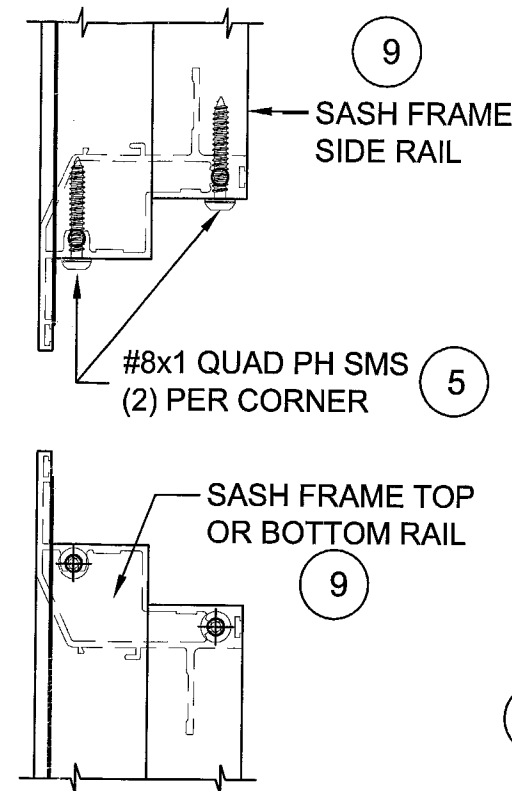
Revsd By: F.K.	Date: 8/26/03	Revisions: A	REDRAW HORIZONTAL SECTIONS TO 1/2 SCALE		1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275  P.O. BOX 1529 NOKOMIS, FL 34274	 Visibly Better	Description: HORIZONTAL SECTIONS					Rev: A
Revsd By:	Date:	Revisions:					Title: ALUM. PROJECTED WINDOW, IMPACT					
Revsd By:	Date:	Revisions:					Series/Model: CA-740					
Drawn By: F.K.	Date: 02/24/03	Checked By:	Date:				Scale: NTS	Sheet: 8 of 11	Drawing No. 7052-7			

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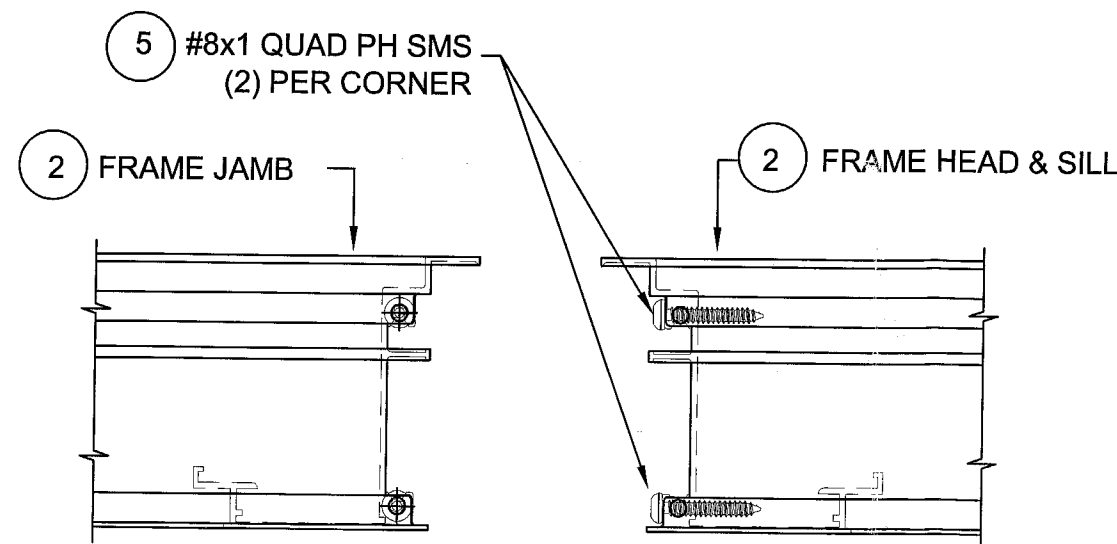
NOTE: ALL ALUMINUM SHALL BE OF 6063-T6



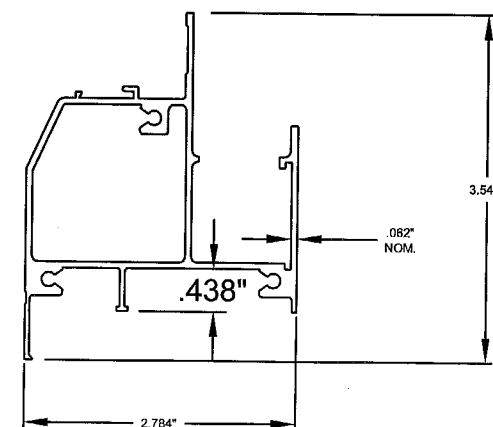
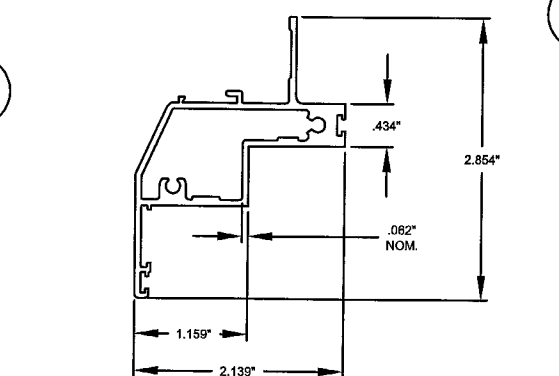
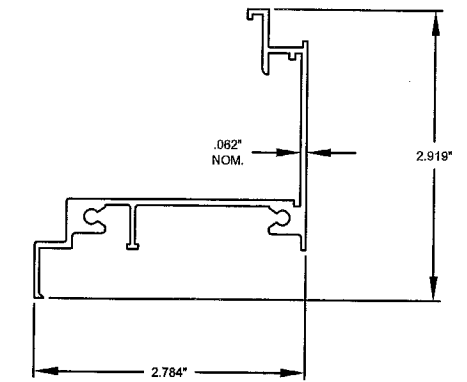
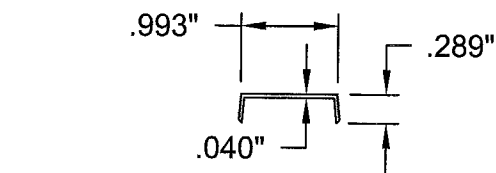
"OX" FRAME ASSEMBLY DETAIL



SASH FRAME ASSEMBLY DETAIL




MAIN FRAME ASSEMBLY DETAIL



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Florida Building Code  
Date 11/06/03  
NOA# 03-0514.10  
Miami Dade Product Control  
Division  
By Lucas A. Turner

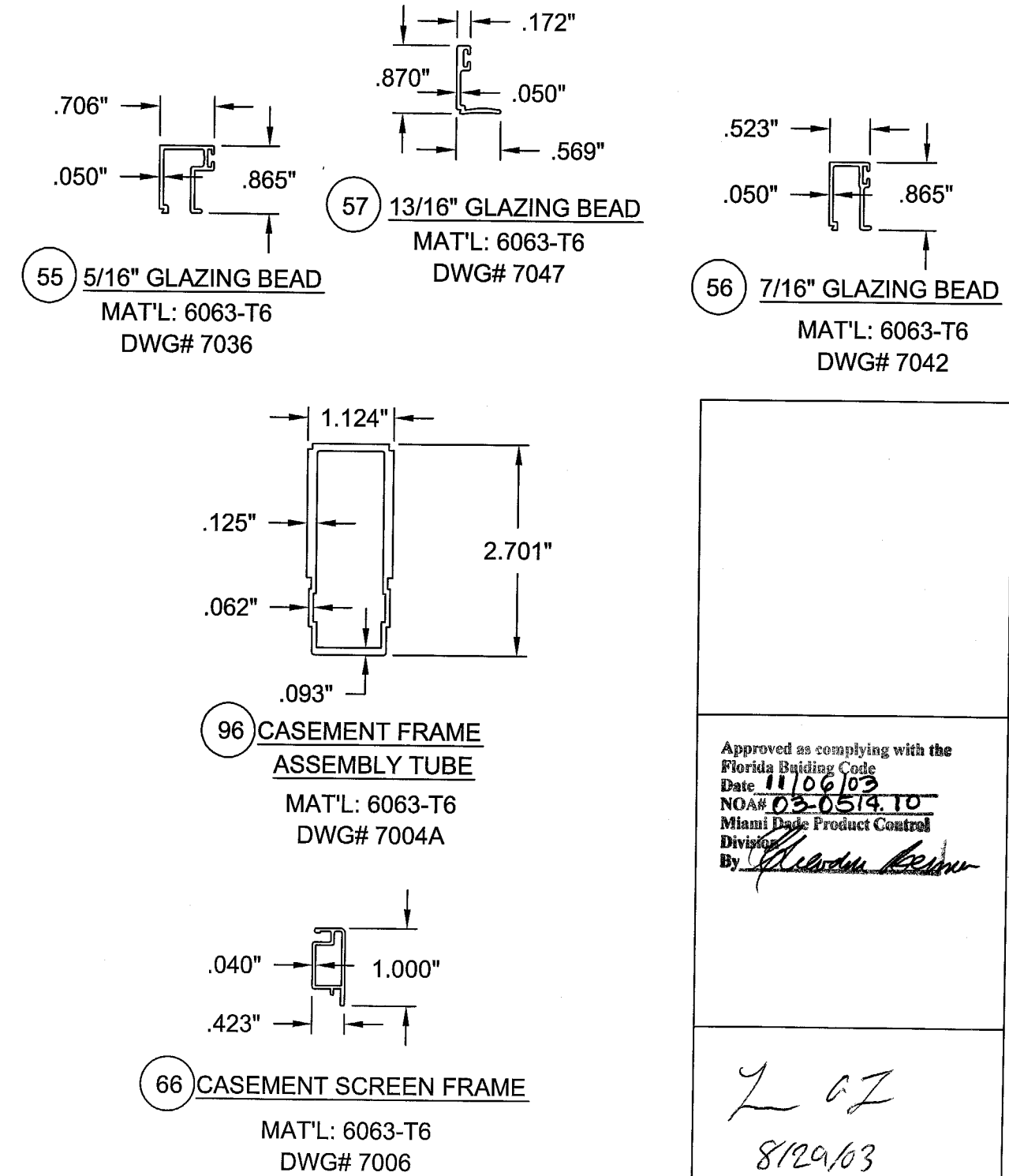
L A I  
8/29/03

Revsd By: F.K.	Date: 8/26/03	Revisions: A	NO CHANGE THIS SHEET		1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275  P.O. BOX 1529 NOKOMIS, FL 34274		Description: EXTRUSIONS & ASSEMBLY DETAILS				
Revsd By:	Date:	Revisions:					Title: ALUM. PROJECTED WINDOW, IMPACT				
Revsd By:	Date:	Revisions:					Series/Model: CA-740	Scale: NTS	Sheet: 9 of 11	Drawing No. 7052-7	Rev: A
Drawn By: F.K.	Date: 02/24/03	Checked By:	Date:								

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PE #58201  
Mechanical

	ITEM	DWG #	PGT. #	DESCRIPTION
FRAME "X"	2	7002	67002A	MAIN FRAME HEAD, SILL AND JAMB
	5	1155	781PQA	#8 X 1 QUAD PN SMS
	6	7008	7MC7008	FRAME CORNER KEY
	7	7048	77048K	1/2"X1/2"X1/8" CLOSED-CELL FOAM TAPE
SASH	9	7003	67003A	SASH TOP, BOTTOM AND HINGED
	5	1155	781PQA	#8 X 1 QUAD PN SMS
	13	7017	67017K	BULB WEATHERSTRIP .187X.185
	14	7009	7MC7009	SASH CORNER KEY
HARDWARE	16	7024	7MC7024	TRUTH #24.30.XX.002, MAXIM MULTI- 2 POINT LOCK
	17	7026	7MC7026	TRUTH #23050.92, LOCK SUPPORT PLATE
	18		7MC1024PPF	TRUTH #19298, #10-24 X .562 PH. PN. TYPE F
	20	7014	7MC7014 RH/LH	TRUTH #40928 & #40929, MULTI-LOCK KEEPER (R.H. & L.H.)
	21	1157	78X12PPSMS	#8 X .500 PH. PN. SMS
	23	7013	7MC7013	TRUTH #31841, TIE BAR GUIDE
	24		78X1FPSMS	#8 X 1.00 FH. PH. SMS
	25	7015	SEE CHART	TRUTH #11901.92 (14.9), TIE BAR ASSEMBLY
	27	7029	7MC7029	TRUTH #51.02.32.011, MAXIM PROJECTED OPERATOR
	28	7030	7MC7030	TRUTH #31882, OPERATOR GASKET
	29	7031	7MC7031	TRUTH #21641, BACKING PLATE
	30		7832X38PPMSA	#8-32 X .375 PH. PN. TYPE B
	31		7MC7022	TRUTH #11454, SNAP-ON HANDLE
	32	7034		TRUTH #11577, OPERATOR TRACK & SLIDER
	33		78X78PPSMS	#8 X .750 PH. PN. SMS
	35	7023	7MC7023	TRUTH #34.25.00.212, PROJECTED HINGE - 12"
	36	7023-2	7MC702316	TRUTH #34.27.00.104, PROJECTED HINGE - 16"
	37	7023-3	7MC702320	TRUTH #34.29.00.107, PROJECTED HINGE - 20"
GLAZING	38		710X12PPSMS	#10 X .500 PH. PHL.
	40			SILICONE - DOW CORNING 899 OR 995
	45		5/16"	LAMINATED GLASS (1/8" ANN. & 1/8" HS GLASS W/ AN .090 INNER LAYER OF SOLUTIA OR DUPONT PVB)
	46		5/16"	LAMINATED GLASS (2 LITES OF 1/8" HS GLASS W/ AN .090 INNER LAYER OF SOLUTIA OR DUPONT PVB)
	47		7/16"	LAMINATED GLASS (3/16" ANN. & 3/16" HS GLASS W/ AN .090 INNER LAYER OF SOLUTIA OR DUPONT PVB)
	48		7/16"	LAMINATED GLASS (2 LITES OF 3/16" HS GLASS W/ AN .090 INNER LAYER OF SOLUTIA OR DUPONT PVB)
BEAD	49		13/16"	I.G. GLASS (1/8" HS GLASS & 5/16" LAMI W/ 3/8" AIR SPACE) 5/16" LAMINATED GLASS (2 LITES 1/8" HS GLASS WITH AN .090 INNER LAYER OF SOLUTIA OR DUPONT PVB)
	50	1634	71634K	SETTING BLOCK 5/32" X 7/16" X 1" LG.
	55	7036	67036	GLAZING BEAD (1/4, 5/16 LAM.)
	56	7042	67042	GLAZING BEAD (1/2" I.G., 7/16 LAM.)
SCREEN	57	7047	67407	GLAZING BEAD (13/16" I.G.)
	64	1224	6TP247	VINYL BULB WSTP (THICK)
	66	7006	67006	SCREEN FRAME
	68	7040	47040 W/B	SCREEN CORNER KEY
OPTIONS	69			SCREEN CLOTH
	70	1635	61635K	SCREEN SPLINE - SERRATED
	71	331-A	60976	CASEMENT SCREEN CLIP
	72	1157	78X12PSTW/B	#8 X .500 SQ. PN. TEK SMS
	77		7MC30426	TRUTH #30476, CLERESTORY POLE
	78		7MC20550	TRUTH #20550, CLERESTORY ADAPTER
	79	7019	711573	TRUTH #11573, SNAP-ON T-HANDLE KNOB
	80	7018	7FLDHD	TRUTH #11329, FOLDING HANDLE

	ITEM	DWG #	PGT. #	DESCRIPTION
FRAME "O"	90	7005	67005A	CASEMENT FIXED WINDOW FRAME
	92	1155	781PQA	#8 X 1 QUAD PN SMS
	93	7010	7MC7010	FIXED FRAME CORNER KEY
	94	7007	67007	INSTALLATION HOLE COVER - HOR.
	95			PARABOND
	96	7004A	67004A	CASEMENT FRAME ASS'Y. TUBE
	97		712X1PPT	#12 X 1 PH PN TEK



Revsd By: F.K.	Date: 8/26/03	Revisions: A	NO CHANGE THIS SHEET
Revsd By:	Date:	Revisions:	
Revsd By:	Date:	Revisions:	
Drawn By: F.K.	Date: 02/24/03	Checked By:	Date:

1070 TECHNOLOGY DRIVE  
NOKOMIS, FL 34275  
P.O. BOX 1529  
NOKOMIS, FL 34274

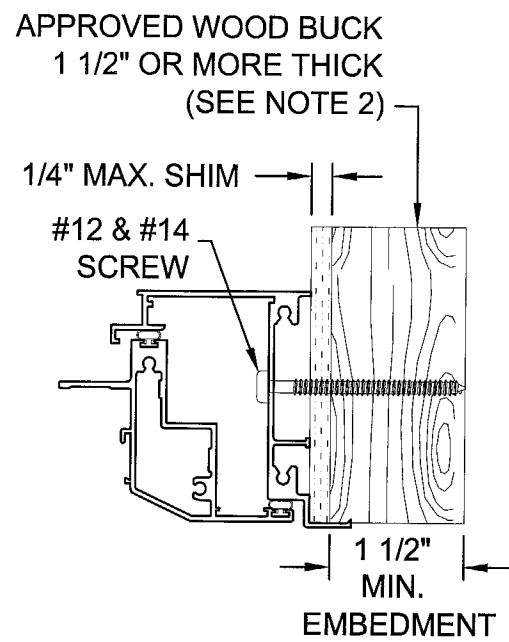
**PGT**  
Visibly Better

Description:  
**PARTS LIST & EXTRUSIONS**  
Title:  
**ALUM. PROJECTED WINDOW, IMPACT**  
Series/Model:  
CA-740  
Scale:  
NTS  
Sheet:  
10 of 11  
Drawing No.  
7052-7  
Rev:  
A

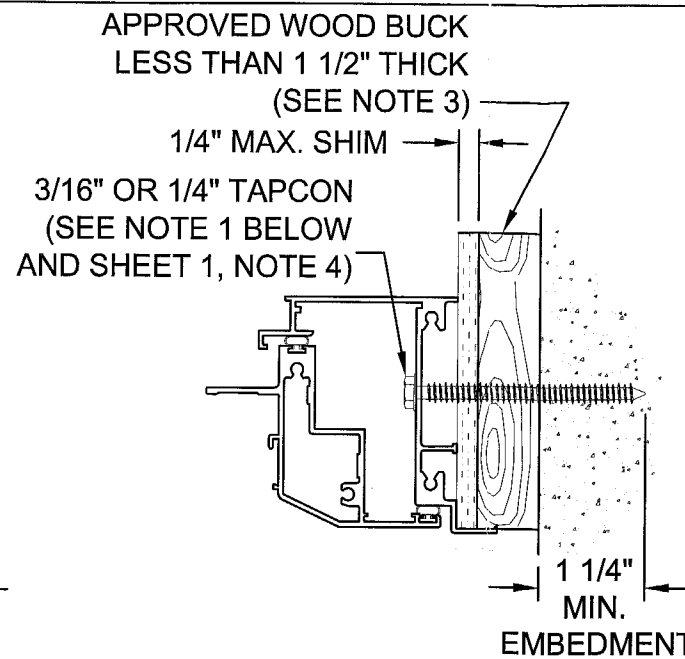
Approved as complying with the  
Florida Building Code  
Date: 11/06/03  
NOA# 03-0514.10  
Miami Dade Product Control  
Division  
By: [Signature]

L A T  
8/29/03

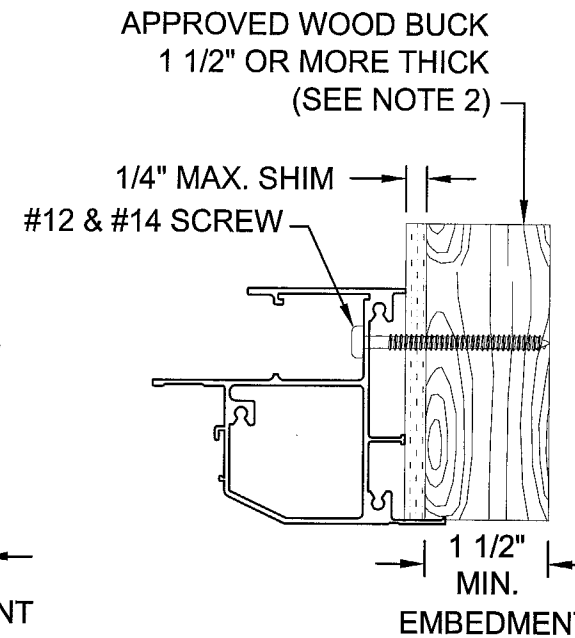
Lucas A. Turner, P.E.  
PE #58201  
Mechanical



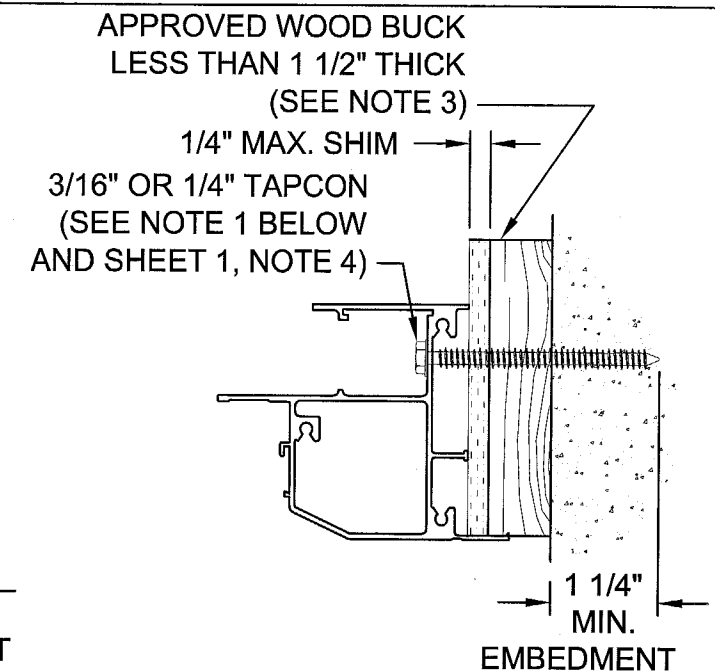
OPERABLE UNIT FRAME  
TO WOOD BUCK  
1 1/2" OR MORE THICK



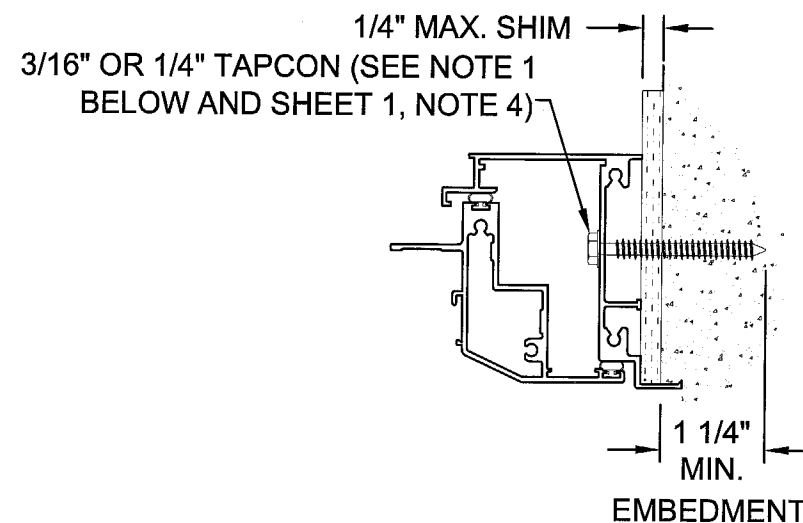
OPERABLE UNIT FRAME  
TO CONCRETE W/ WOOD BUCK  
LESS THAN 1 1/2" THICK



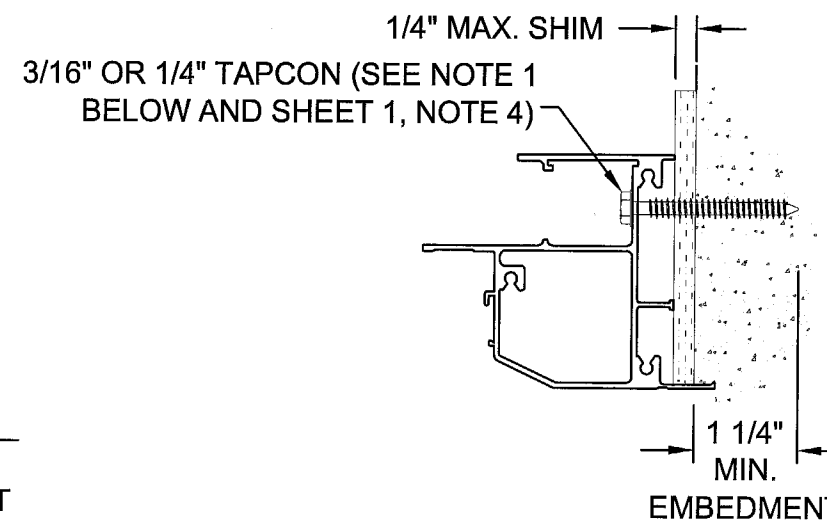
FIXED UNIT FRAME  
TO WOOD BUCK  
1 1/2" OR MORE THICK



FIXED UNIT FRAME TO CONCRETE W/  
WOOD BUCK LESS THAN 1 1/2" THICK



OPERABLE UNIT FRAME  
TO CONCRETE



FIXED UNIT FRAME  
TO CONCRETE

NOTE: ALL DETAILS  
APPLY TO HEAD,  
SILL, AND JAMB.

NOTES:

1. USE ONLY MIAMI-DADE COUNTY APPROVED ELCO OR ITW TAPCONS.
2. INSTALLATION TO THE SUBSTRATE OF WOOD BUCKS 1 1/2" OR MORE THICK TO BE ENGINEERED BY OTHERS AND TO BE REVIEWED BY BUILDING OFFICIAL.
3. INSTALLATION TO THE SUBSTRATE OF WOOD BUCKS LESS THAN 1 1/2" THICK TO BE ENGINEERED BY OTHERS.

Approved as complying with the  
Florida Building Code  
Date 11/06/03  
NOA# 03-0514.10  
Miami Dade Product Control  
Division  
By Lucas A. Turner

*LAT*  
8/29/03

Revsd By: F.K.	Date: 8/26/03	Revisions: A	NO CHANGE THIS SHEET	1070 TECHNOLOGY DRIVE NOKOMIS, FL 34275  P.O. BOX 1529 NOKOMIS, FL 34274	<b>PGT</b> Visibly Better	Description: <b>ANCHORAGE DETAILS</b>					
Revsd By:	Date:	Revisions:				Title: <b>ALUM. PROJECTED WINDOW, IMPACT</b>					
Revsd By:	Date:	Revisions:				Series/Model: CA-740	Scale: NTS	Sheet: 11 of 11	Drawing No. 7052-7	Rev: A	
Drawn By: F.K.	Date: 02/24/03	Checked By:	Date:								

Lucas A. Turner, P.E.  
PE #58201  
Mechanical